

a resilient arm having a portion thereof coupled to the first side of the beam flange;

a locking pin extending from the resilient arm, the locking pin protruding through the locking pin opening,

the resilient arm biasing the locking pin through the locking pin opening of the beam flange; and

a locking flange extending from the locking pin, a portion of the locking flange disposed alongside the second side of the beam flange.

48. (Amended) A rack, including:

a plurality of vertical members defining a plurality of vertical member holes, and a plurality of horizontal beams supported on said vertical members;

a mounting bracket at one end of one of said horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having at least two lugs projecting inwardly from its interior surface, said two lugs being received in two of said vertical member holes; wherein said first leg defines first and second holes, at least said first hole being aligned with one of said vertical member holes, each of said first and second holes having an enlarged width portion and a narrower width portion, wherein said interior surface defines a recess adjacent to each of said narrower width portions, and the recess adjacent to the narrower

width portion of said second hole terminates short of its respective enlarged width portion;
and

a resilient locking member including a clip mounted in the recess of said second hole, with said vertical member preventing said clip from moving further inwardly, and including a locking pin having a shank and an enlarged head, wherein the shank extends through said first hole and through the vertical member hole aligned with said first hole.

II. Response

In the Office Action dated August 28, 2002, claims 15, 16, 18, 19, 21 and 27-63 were rejected and claims 17, 20 and 22-26 were objected to but indicated as allowable if rewritten in independent form. Applicants acknowledge and appreciate the Examiner's indication of allowable subject matter. Claims 15 and 48 were objected to because of certain informalities. Claim 48 was also rejected under 35 U.S.C. § 112, second paragraph, as indefinite. Claims 15, 16, 18, 19, 21 and 27-63 were rejected under 35 U.S.C. § 102(e) as anticipated by Kautz et al. U.S. Patent 6,241,109. The Examiner also asserted that applicant had failed to illustrate sufficient support for the newly added claims in applicant's specification to provoke an interference and that applicants had not established that they had invented the claimed subject matter prior to Kautz's earliest filing date.

The present invention is directed to a locking latch for use in locking a horizontal beam to a vertical post. Such locking systems are typically used in storage rack systems to prevent the accidental dislodging of a beam from a post.

Claims 15 and 48 have been amended to remove any ambiguity. The scope of the claims has not been affected by these amendments. Applicants respectfully suggest that these amendments remove the informality objections and the objection under 35 U.S.C. § 112, second paragraph.

Applicants respectfully traverse the Examiner's assertions regarding applicants' request for interference with the Kautz. Applicant has requested an interference pursuant to 37 C.F.R. § 1.606-608, at least as between Kautz et al. **United States Patent 6,241,109** (the "'109 patent") claims 1-15 and at least claims 35-63 of the present application. The '109 patent issued on June 5, 2001, and claims 35-63 were added to the present application within one year of the issuance of the '109 patent.

To assist the examiner, applicants below present a more detailed claim chart illustrating the support in applicants specification for the claim for which an interference is sought.

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>35. A locking member for a rack, comprising:</p> <p>a mounting bracket (50)(51), having a first leg defining a substantially flat interior surface (52) and an exterior surface and a plurality of mounting studs (40) projecting inwardly from said interior surface, said first leg also defining at least a first through hole (56)(151,153);</p>	<p>Figs. 1& 6-8 and related description at pages 5 (lines 1-5) and 12 (lines 11-15).</p> <p>Fig. 1, beam flange 50, p. 5, lns 5-7, inner side 52, p. 5, ln 6, mounting studs 40, p. 5, ln 5, hole 56, p. 6, lns 18, 20-21 (locking pin opening). The beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12).</p> <p>The beam flange 50 also includes openings 56 each of which include an aperture and a slot portion 156. The interior of the flange in the slot portion 156 includes a recess 158</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>a resilient member (100)(102) mounted on said first leg, lying adjacent to said exterior surface, and including a locking pin (120) having a shank extending through said first hole(56)(151, 153) wherein said locking pin defines an enlarged head portion (122 & 114)and said interior surface (52) defines a recess (57)(158) adjacent to said first hole (56)(151, 153)which receives said enlarged head portion.</p>	<p>adjacent the slot portion. (See p. 11, lns 1-6).</p> <p>Fig. 6-8, beam flange 51, p. 12, ln 15, inner side 52, p. 13, ln 27; first and second openings 151, 152, p. 12, ln 15-16. The beam flange 50 is used for mounting the horizontal beam 30 on the post 20 The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1).</p> <p>Fig. 1, latch 100 and resilient arm and pin 110 & 120 p. 6, lns 23-25. For shank through hole, see Fig 1 in areas indicated in area of 133; enlarged end portion – see p. 7, lns 1-4 and Fig. 1, in area designated 130, flange recess 57, tooth recess 58, p. 8, lns 10-13. The locking pin 120 includes a locking flange 130 having a locking tooth 132 or other appropriate shape and an opening recess 158 and tooth recess 58. See p. 9, ln 20- p. 10, ln 11.</p> <p>Fig. 6-8, latch 102, p.12, ln 11, locking pin 120 p. 12, ln 23, pages 12-14. For shank through hole see Fig. 6 in area near 120 designation, slot recess 158, p. 13, ln 26-27 – p. 14, ln 1. The locking pin 120 includes lobes 135 and 136 that extend generally radially from opposing side portions of the locking pin. See p.. 12, ln 27 to p. 13, ln 11. The locking pin lobes 135 and 136 engage slot recesses 158 to permit installation and retraction of the enlarged head essentially flush with the interior surface of the beam flange 50. See p. 13 ln 19 – p. 14, ln . 1.</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>36. A locking member for a rack as recited in claim 35, wherein said recess (57, 158) is deep enough to permit said locking pin (120) to be substantially flush with said interior surface when said resilient member is retracted.</p>	<p>Fig. 1, flange recess 57, tooth recess 58, p. 8, lns 10-13, see p. 8, ln 23-p.9, ln 2.</p> <p>Fig. 6-8, slot recess 158, p. 13, ln 26-27 – p. 14, ln 1. The locking pin lobes 135 and 136 engage slot recesses 158 to permit installation and retraction of the enlarged head essentially flush with the interior surface of the beam flange 50. See p. 13 ln 19 – p. 14, ln . 1.</p>
<p>37. A locking member for a rack as recited in claim 36, wherein said first hole (56)(151, 153) includes an enlarged-width portion large enough to permit the head of said locking pin to pass through and a narrower width portion large enough to permit the shank to pass through but too narrow to permit said enlarged head to pass through, and wherein said recess (57)(158) lies adjacent to said narrower width portion.</p>	<p>Figs. 3, p. 11, lns 7-22</p> <p>Fig. 8 and page 12 (lines 15-26) and page 13 (lines 19-26) and page 14 (line 1). The beam flange 50 include flange openings 151 & 153. The flange openings have an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1). The locking pin lobes 135 and 136 will pass through the aperture portion but only the locking pin itself will pass through the slot portion. The lobes fit into the recess 158. See p. 13, ln 19 - p. 14, ln 1.</p>
<p>38. A locking member for a rack as recited in claim 36, wherein said resilient member is staked to said first leg at an end distant from said locking pin.</p>	<p>Fig. 1, See general area indicated by 140 and 142, The first end portion 112 of the resilient arm is coupled or fastened to the beam flange 50 (p. 6, lines 25-27; see also p. 10, lines 19-27.</p> <p>Figs. 6-8 (general area indicated by 140 and 142) and page 13 (lines 12-18) where description of fastening the latch to the beam flange is provided..</p>
<p>39. A locking member for a rack as recited in claim 36, wherein said first leg also defines a second hole, and wherein both said first and second holes define an enlarged width portion and a reduced width portion, and wherein said interior surface defines recesses adjacent to the reduced-width portion of each of said holes.</p>	<p>Figs. 1-3 – see locking pin openings 56 and inner side flange recess 57 and slot recesses 158. The recess is sized to accommodate the locking flange 130 and to permit positioning of the locking pin 120 through the locking pin opening 56 of the beam flange so that the second end portion 124 thereof does not interfere with the assembly of the beam member 30 and post 20 (p. 8, lns 13-19; and see continuing to line 22). Also, the beam</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
	<p>flange has generally two openings 150 and 152. Each opening has a slot portion 156 and a aperture portion 154. The slot portion includes a slot recess 158 formed on the inner side of the beam flange (See p. 11, lns 1-6)/</p> <p>Figs. 6-8 – Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 (P. 12 (line 15) to page 14 (line 1)).</p>
<p>40. A locking member for a rack as recited in claim 37, wherein said first leg also defines a second hole, and wherein both said first and second holes define an enlarged width portion and a reduced width portion, and wherein said interior surface defines recesses adjacent to the reduced-width portion of each of said holes.</p>	<p>Figs. 1-3 – see locking pin openings 56 and inner side flange recess 57 and slot recesses 158. The recess is sized to accommodate the locking flange 130 and to permit positioning of the locking pin 120 through the locking pin opening 56 of the beam flange so that the second end portion 124 thereof does not interfere with the assembly of the beam member 30 and post 20 (p. 8, lns 13-19; and see continuing to line 22). Also, the beam flange has generally two openings 150 and 152. Each opening has a slot portion 156 and a aperture portion 154. The slot portion includes a slot recess 158 formed on the inner side of the beam flange (See p. 11, lns 1-6).</p> <p>Figs. 6-8 – Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 (P. 12 (line 15) to page 14 (line 1)).</p>
<p>41. A locking member for a rack as recited in claim 39, wherein said resilient member includes a clip having left and right wings mounted in the recess of said second hole.</p>	<p>Figs. 1 & 4, wing members 142. See p. 11, lines 15-22. The latch 100 includes wing members 142.</p> <p>Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142.</p>
<p>42. A locking member for a rack as recited in claim 36, and further comprising a hole in said resilient member aligned with a hole in said first leg.</p>	<p>Figs. 2 & 3 – The beam flange includes two openings 150 & 152. One opening is the locking pin opening 56 and the other opening is used to couple the latch 100 to the flange. See p. 11, ln 7 – p. 12, ln 10. The hole in the latch surrounding the wings 142 is aligned with the opening 152 in the beam flange 50.</p> <p>Figs. 6-8, Again the hole surrounding the wings 142 is aligned with the beam flange</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>43. A mounting bracket for mounting a horizontal beam of a rack on a vertical member of a rack, comprising:</p> <p>an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having two lugs protecting inwardly from its interior surface and defining first and second holes, said second hole having a narrow width portion, and wherein said interior surface defines a recess adjacent to said narrow width portion.</p>	<p>opening 153. See p. 13, lns 12-18.</p> <p>Fig. 1 – the beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12).</p> <p>The beam flange 50 also includes openings 56 each of which include an aperture and a slot portion 156. The interior of the flange in the slot portion 156 includes a recess 158 adjacent the slot portion. (See p. 11, lns 1-6).</p> <p>Figs. 6-8 – the beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1)).</p>
<p>44. A mounting bracket as recited in claim 43, and further comprising a resilient member mounted on said first leg, said resilient member including a clip extending through said second hole and retained in said recess.</p>	<p>Figs. 1 & 4, wing members 142. See p. 11, lines 15-22. The latch 100 includes wing members 142. The beam flange includes two openings 150 & 152. One opening is the locking pin opening 56 and the other opening is used to couple the latch 100 to the flange. See p. 11, ln 7 – p. 12, ln 10. The wings 142 are aligned with the opening 152 in the beam flange 50. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange.</p> <p>Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142. The wings 142 are aligned with the beam flange opening 153. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. See p. 13, lns 12-18.</p>
<p>45. A mounting bracket as recited in claim 44, wherein said resilient member further</p>	<p>Fig. 1 – locking pin 120 extending through opening 56. See p. 7, lns 5-8.</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
includes a locking pin which extends through said first hole.	Figs.6-8 – locking pin 120 extending through opening 151. See p. 12, lns 23-26.
46. A mounting bracket as recited in claim 45, wherein said locking pin has a shank and an enlarged head and said first hole defines an enlarged width portion large enough to permit the enlarged head to pass through and a narrower width portion, which is wide enough to permit the shank to pass through but not wide enough to permit the enlarged head to pass through.	Fig. 1 – locking pin 120 includes a locking flange 130 having a locking tooth 132 or other appropriate shape. (P. 9, ln 20 – p. 10, ln 11. Figs .6-8 – locking pin 120 includes lobes 135 and 136 that extend generally radially from opposing side portions of the locking pin. See p. 12, ln 27 to p. 13, ln 11.
47. A mounting bracket as recited in claim 46, wherein said interior surface also defines a recess adjacent to the narrower width portion of said first hole, in order to permit the enlarged head to be retracted to a position substantially flush with said interior surface.	Figs. 1 & 3 illustrate the locking pin 120 and the opening recess 158 and tooth recess 58. See p. 9, ln 20- p. 10, ln 11. Figs. 6-8 – Locking pin lobes 135 and 136 engage slot recesses 158 to permit installation and retraction of the enlarged head essentially flush with the interior surface of the beam flange 50. See p. 13 ln 19 – p. 14, ln . 1.
48. A rack, including: a plurality of vertical members defining a plurality of vertical member holes, and a plurality of horizontal beams supported on said vertical members; a mounting bracket at the end of one of said horizontal beams, including an L-shaped member, having a substantially flat interior surface and an exterior surface and defining first and second legs, said first leg having at least two lugs projecting inwardly from its interior surface, said two lugs being received in two of said vertical member holes; wherein said first leg defines first and second holes, at least said first hole being aligned with one of said vertical member holes, each of said first and second holes having an enlarged width portion and a narrower width	Fig. 1 – the beam flange 50 is used for mounting the horizontal beam 30 on the post 20 The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). The beam flange 50 also includes openings 56 each of which include an aperture and a slot portion 156. The interior of the flange in the slot portion 156 includes a recess 158 adjacent the slot portion. (See p. 11, lns 1-6). The recess terminates short of the aperture portion of the opening 56. Figs. 6-8 - – the beam flange 50 is used for mounting the horizontal beam 30 on the post 20 The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>portion, wherein said interior surface defines a recess adjacent to each of said narrower width portions, and the recess adjacent to the narrower width portion of said second hole terminates short of its respective enlarged width portions; and</p> <p>a resilient locking member including a clip mounted in the recess of said second hole, with said vertical member preventing said clip from moving further inwardly, and including a locking pin having a shank and an enlarged head, wherein the shank extends through said first hole and through the vertical member hole aligned with said first hole.</p>	<p>1). The recess 158 terminates short of the aperture portion 154 of the openings 151 & 153.</p> <p>Figs. 1 & 4, wing members 142. See p. 11, lines 15-22. The latch 100 includes wing members 142. The beam flange includes two openings 150 & 152. One opening is the locking pin opening 56 and the other opening is used to couple the latch 100 to the flange. See p. 11, ln 7 – p. 12, ln 10. The wings 142 are aligned with the opening 152 in the beam flange 50. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. Locking pin 120 includes a locking flange 130 having a locking tooth 132 or other appropriate shape. (P. 9, ln 20 – p. 10, ln 11.</p> <p>Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142. The wings 142 are aligned with the beam flange opening 153. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. See p. 13, lns 12-18. Locking pin 120 extending through opening 151. See p. 12, lns 23-26.</p>
<p>49. A method of assembling and disassembling a storage rack system, the method comprising the steps of:</p> <p>providing a beam member including a headed lug, a spaced apart opening, and a recess;</p> <p>connecting a latch assembly to the beam member, the latch assembly including a</p>	<p>This method encompasses essentially the entirety of the disclosure of the apparatus. Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
<p>resilient arm and a locking pin extending from the resilient arm, such that the resilient arm biases the locking pin through the opening in the beam member;</p> <p>connecting the beam member to a post, such that the headed lug is received by a first opening in the post, and such that the resilient arm biases the locking pin at least partially into a second opening in the post; and</p> <p>wherein the steps of disassembling the storage rack system include,</p> <p>withdrawing the locking pin from the second opening in the post to allow the beam member to be disconnected from the post;</p> <p>preventing the locking pin from being completely withdrawn from the second opening in the beam member, such that the recess in the beam member limits the movement of the resilient arm; and</p> <p>disconnecting the beam member from the post.</p>	<p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p> <p>Fig. 1 and page 5, Figs. 6-8 and pages 12-14.</p>
<p>50. A locking latch arrangement for a storage rack system, comprising:</p> <p>a beam flange having a plurality of mounting studs projecting inwardly for connecting the beam flange to a post, the beam flange including an inner surface and the beam flange also defining at least a first locking pin opening;</p>	<p>Fig. 1 – the beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12).</p> <p>The beam flange 50 also includes openings 56 each of which include an aperture and a slot portion 156. The interior of the flange in the slot portion 156 includes a recess 158 adjacent the slot portion. (See p. 11, lns 1-6).</p> <p>Figs. 6-8 – the beam flange 50 is used for</p>

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<p>a resilient arm latch mounted on the beam flange, lying adjacent to the exterior surface of the beam flange, and including a locking pin extending through the locking pin opening, wherein the locking pin shank includes a locking flange and wherein the inner surface of the beam flange includes a flange recess area adjacent to the locking pin opening to accommodate the locking flange.</p>	<p>mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1)).</p> <p>Fig. 1 -Latch 100 includes a locking pin 120 which includes a locking flange 130 having a locking tooth 132 or other appropriate shape. (P. 9, ln 20 - p. 10, ln 11. Figs. 1 & 3 illustrate the locking pin 120 and the opening recess 158 and tooth recess 58. See p. 9, ln 20- p. 10, ln 11.</p> <p>Figs. 6-8 -Latch 102 includes a locking pin 120 having lobes 135 and 136 that extend generally radially from opposing side portions of the locking pin. See p. 12, ln 27 to p. 13, ln 11. Locking pin lobes 135 and 136 engage slot recesses 158 to permit installation and retraction of the enlarged head essentially flush with the interior surface of the beam flange 50. See p. 13 ln 19 - p. 14, ln . 1.</p>
<p>51. The locking latch arrangement of claim 50, wherein the recess is deep enough to permit the locking pin and locking flange to be substantially flush with the interior surface of the beam flange when the resilient arm latch is retracted.</p>	<p>Locking pin lobes 135 and 136 engage slot recesses 158 to permit installation and retraction of the enlarged head essentially flush with the interior surface of the beam flange 50. See p. 13 ln 19 - p. 14, ln . 1.</p>
<p>52. The locking latch arrangement of claim 51, wherein the locking pin opening includes an aperture portion large enough to permit the locking pin and locking flange to pass through and a slot portion large enough to permit the locking pin to pass through but too</p>	<p>Figs. 6-8 - - the beam flange 50 include flange openings 151 & 153. The flange openings have an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15)</p>

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
narrow to permit the locking flange to pass through, and wherein the recess lies adjacent to the slot portion.	to page 14 (line 1). The locking pin lobes 135 and 136 will pass through the aperture portion but only the locking pin itself will pass through the slot portion. The lobes fit into the recess 158. See p. 13, ln 19 - p. 14, ln 1.
53. The locking latch arrangement of claim 51, wherein the resilient arm is fastened to the beam flange at an end distant from the locking pin.	Figs. 6-8 – The locking pin is at one end of the latch 102 and the attaching wings 142 are at the opposite end of the latch. See p. 13 (lines 12-18).
54. The locking latch arrangement of claim 51, wherein the beam flange also defines a second opening, and wherein both the first and second openings define an aperture portion and a slot portion, and wherein the beam flange inner surface defines recesses adjacent to the slot portion of each of the openings.	Figs. 6-8 -- the beam flange 50 include flange openings 151 & 153. The flange openings have an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1).
55. The locking latch arrangement of claim 52, wherein the beam flange defines a second opening and wherein both the first and second openings define an aperture portion and a slot portion, and wherein the beam flange inner surface defines recesses adjacent to the slot portion of each of the openings.	Figs. 6-8 -- the beam flange 50 include flange openings 151 & 153. The flange openings have an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1).
56. The locking latch arrangement of claim 54, wherein the resilient arm latch includes a clip having left and right wings mounted in the recess of the second opening.	Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142. The wings 142 are aligned with the beam flange opening 153. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. See p. 13, lns 12-18.
57. The locking latch arrangement of claim 51, wherein the resilient arm latch includes a hole which may be aligned with an opening in the beam flange.	Figs. 6-8, Again the hole surrounding the wings 142 is aligned with the beam flange opening 153. See p. 13, lns 12-18.
58. A beam flange for mounting a horizontal beam of a rack on a vertical member of a rack, comprising an L-shaped flange, having a substantially flat interior surface and an exterior surface and defining first and second legs, the first leg having two lugs protecting inwardly from its interior surface and	Figs. 6-8 -- the beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange openings 151 & 153 include an

Present Patent Application Claims with related Fig. numbering indicated	Support In Specification
defining first and second openings, the second opening having a slot portion, and wherein the interior surface defines a recess adjacent to slot portion.	aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1)).
59. The beam flange of claim 58, and further comprising a resilient latch mounted on the first leg, the resilient latch including a clip extending through the second opening and retained in the recess.	Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142. The wings 142 are aligned with the beam flange opening 153. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. See p. 13, lns 12-18.
60. The beam flange of claim 59, wherein the resilient latch further includes a locking pin which extends through the first opening.	Figs. 6-8 – locking pin 120 extending through opening 151. See p. 12, lns 23-26.
61. The beam flange of claim 60, wherein the locking pin has a shank and a locking pin flange and the first opening defines an enlarged aperture large enough to permit the locking pin flange to pass through and a slot portion, which is wide enough to permit the shank to pass through but not wide enough to permit the locking pin flange to pass through.	Figs. 6-8 - Latch 102 includes a locking pin 120 having lobes 135 and 136 that extend generally radially from opposing side portions of the locking pin. See p. 12, ln 27 to p. 13, ln 11. The beam flange 50 include flange openings 151 & 153. The flange openings have an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1)). The locking pin lobes 135 and 136 will pass through the aperture portion but only the locking pin shank itself will pass through the slot portion. The lobes fit into the recess 158. See p. 13, ln 19 - p. 14, ln 1.
62. The beam flange of claim 61, wherein the interior surface also defines a recess adjacent to the slot portion of the first opening, to permit the locking pin flange to be retracted to a position substantially flush with the interior surface.	Figs. 6-8 The locking pin lobes 135, 136 fit into the recess 158. See p. 13, ln 19 - p. 14, ln 1.
63. A rack, including: a plurality of vertical posts defining a plurality of vertical post holes, and a plurality of horizontal beams supported on the vertical posts; a mounting bracket at the end of one of the horizontal beams, including an L-shaped	Figs. 6-8 – The invention relates to storage rack systems. P. 1, lns 13-15. The beam flange 50 is used for mounting the horizontal beam 30 on the post 20. The beam flange includes headed lugs 40 which extend from the inner side of the beam flange for connection with corresponding openings 22 on the post 20. (P. 5, lns 1-12). Flange

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<p>member, having a substantially flat interior surface and an exterior surface and defining first and second legs, the first leg having at least two lugs projecting inwardly from its interior surface, the two lugs being received in two of the vertical post holes; wherein the first leg defines first and second openings, at least the first opening being aligned with one of the vertical post holes, each of the first and second openings having an enlarged aperture and a slot portion, wherein the interior surface defines a recess adjacent to each of the slot portions; and</p> <p>a resilient latch including a clip mounted in the recess of the second opening, with the vertical post preventing the clip from moving further inwardly, and including a locking pin having a shank and a locking pin flange, wherein the shank extends through the first opening and through the vertical post hole aligned with the first opening.</p>	<p>openings 151 & 153 include an aperture portion 154 and a slot portion 156 and an interior wall recess 158 adjacent the slot portion (P. 12 (line 15) to page 14 (line 1).</p> <p>Figs. 6-8 and page 13 (lines 12-18). The latch 102 includes wing 142. The wings 142 are aligned with the beam flange opening 153. The wings pass through the aperture portion of the opening and slide down and engage the recess area to connect the latch to the beam flange. See p. 13, lns 12-18. The locking pin 120 shank extends through opening 151 and into the hole on the post. See p. 12, lns 23-26. See p. 13, ln 19 - p. 14, ln 1.</p>

Applicants have also established as required by 37 C.F.R. §§ 1.607 & 1.608 that they are entitled to declaration of an interference. When the effective filing date of an application is within three months or less of the effective filing date of a patent, the applicant or applicant's attorney need only file a statement alleging that there is a basis upon which the applicant is entitled to a judgment relative to patentee. Such a statement was provided by applicants' counsel with the request for interference. However, should the examiner be seeking a separate statement, such a statement is provided in conjunction with this response. Applicants' present